
FnIO G – Series :

GT-2318

GT-2318 (8 Points, Sink Output Terminal, 24Vdc/0.5A)

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History

Rev	Pages	Remarks	Date	Editor
1.00			2016/04/01	Joonho, Park
1.01		Environment Specification	2016/06/03	Dohoon, Lee
1.02		Field Power dissipation	2017/03/31	Hongseok, Kim
1.03	4,5	Shock, Vibration specification changed General specification added(UL)	2020/04/20	Juyong, Bae
1.04	6	Change Diagram, Channel to Point	2023/04/03	Soyeong, Park
1.05	4,6,7	Edit Certification / Change Diagram, Status LED	2023/08/08	Suna, Hwang

Specification

1. ENVIRONMENT SPECIFICATION

Environmental specification	
Operation Temperature	-40°C ~70°C
UL Temperature	-20°C ~60°C
Storage Temperature	-40°C ~85°C
Relative Humidity	5%~90% Non-condensing
Mounting	DIN Rail
General specification	
Shock Operating	IEC 60068-2-27
Vibration Resistance	Based on IEC 60068-2-6, 4g
Industrial Emissions	EN61000-6-4/All : 2011
Industrial Immunity	EN 61000-6-2 : 2005
Installation Position	Vertical and horizontal installation is available
Product Certifications	CE, UL

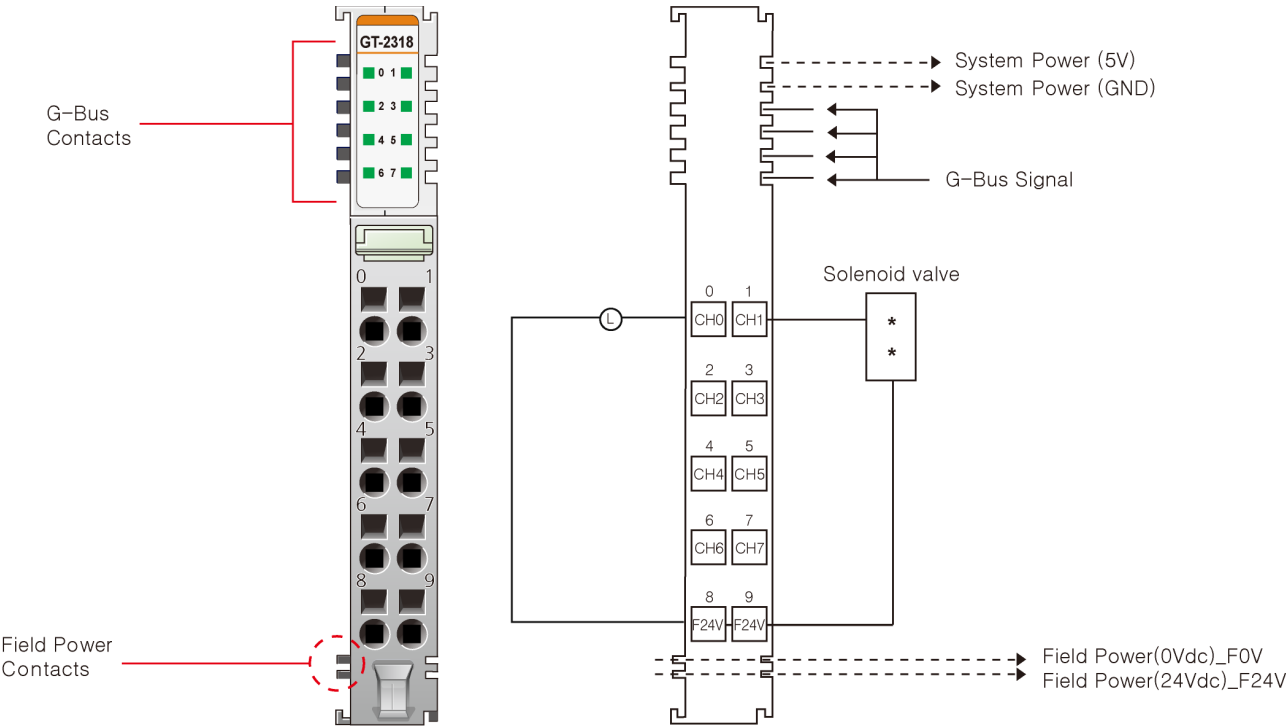
Specification

2. GT-2318 (8 Points, Sink Output Terminal)

2.1. GT-2318 Specification

Items	Specification
Output specification	
Outputs per module	8 points sink type
Indicators	8 green output status
Output voltage range	24Vdc nominal 15Vdc ~ 30Vdc @70°C
On-state voltage drop	0.3Vdc @ 25°C 0.5Vdc @ 70°C
On-State min. current	Min. 1mA
Off-state leakage current	Max. 25uA
Output signal delay	OFF to ON : Max. 0.3ms ON to OFF : Max. 0.3ms
Output current rating	Max. 0.5A per channel / Max. 4A per unit
Protection	Over current limit: Min. 3.5A@ 25°C per each channels Thermal shutdown : Min 3A@ 25°C per each channels Short circuit protection
Common type	8 points / 2 COM
General specification	
Power dissipation	Max. 50mA@ 5Vdc
Isolation	I/O to Logic : photocoupler isolation Field power : non-isolation
UL field power	Supply voltage : 24Vdc nominal, Class 2
Field power	Supply voltage : 24Vdc nominal Voltage range : 15~30Vdc Power dissipation: 5mA @ 24Vdc
Wiring	I/O Cable Max. 2.0mm ² (AWG 14)
Weight	57g
Module size	12mm x 99mm x 70mm
Environment condition	Refer to '1. Environment Specification'

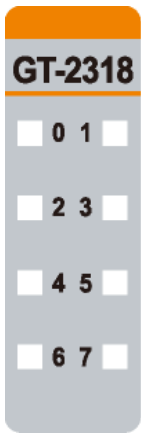
2.2. GT-2318 Wiring Diagram



Pin No.	Signal Description	Signal Description	Pin No.
0	Output Channel 0	Output Channel 1	1
2	Output Channel 2	Output Channel 3	3
4	Output Channel 4	Output Channel 5	5
6	Output Channel 6	Output Channel 7	7
8	Common (Field Power 24V)	Common (Field Power 24V)	9

2.3. GT-2318 LED Indicator

2.3.1. LED Indicator



LED No.	LED Function / Description	LED Color
0	OUTPUT Channel 0	Green
1	OUTPUT Channel 1	Green
2	OUTPUT Channel 2	Green
3	OUTPUT Channel 3	Green
4	OUTPUT Channel 4	Green
5	OUTPUT Channel 5	Green
6	OUTPUT Channel 6	Green
7	OUTPUT Channel 7	Green

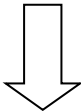
2.3.2. Channel Status LED

Status	LED	To indicate
No Signal	Off	No Output Signal
On Signal	Green	Output Signal detected

2.4. Mapping data into the image table

● Output Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	D7	D6	D5	D4	D3	D2	D1	D0



● Output Module Data

D7	D6	D5	D4	D3	D2	D1	D0
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2.5. Parameter Data

- Valid Parameter length: 2 Bytes
- Parameter Data

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Fault Action (ch0~ch7) 0: Fault value, 1:Hold last state							
Byte1	Fault value (ch0~ch7) 0:Off, 1:On							